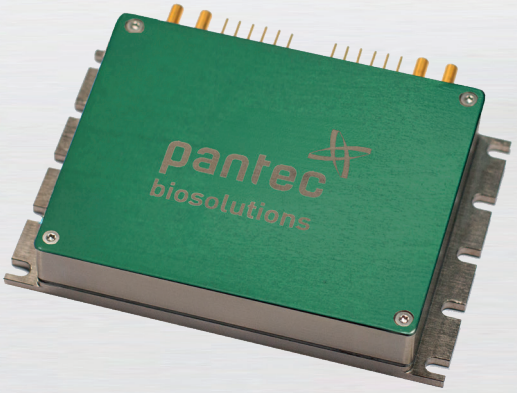
High Brightness
Visible Diode Laser

single frequency
Tapered Laser Diodes

- Tapered laser diode
- High brightness (spatial & spectral)
- Round & Astigmatism free beam (free space)
- Efficient fiber coupling over full power range
- Tophat beam profile (fiber end)
- Microsecond pulses



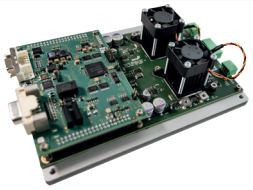
Specifications

	DLM-1 (VIS)
Optical Parameters	
· Wavelength	532 nm or 577 nm
· Output Power (CW)	(1 - 2) W
· Pulse Duration	50 µs - CW
· Duty Cycle	(0 - 100) %
· Mode of Operation	CW & Pulsed
· Spectral Width (FWHM)	‹ 30 pm
· M^2 Factor	‹ 2
· Polarization	Linear
Fiber	
· Core Diameter	‹ 50 µm (0.1 NA)
· Beam Profile	Top Hat like
Electrical Parameters	
· Input Voltage	24 V
· Input Current	2.5 A
Mechanical Dimensions	
· Dimension (L x W x H)	~ (120 x 56 x 25) mm^3
· Weight	~ 300 g
Thermal Parameters	
· Operating Temperature	(15 - 30) °C
· Heat Sink Capacity	100 W
Thermal Parameters	
· Communication	RS232 / Mini USB
· Emergency Stop	Potential free / dual
· Current Monitor	Analog (0 - 4) V
· Trigger In / Out	TTL 5 V
· Current Set	Analog (0 - 4) V

Laser Diode Drivers

The TLDD is an economic pulsed and CW laser diode driver module designed to provide high current pulses to drive DLM (VIS/NIR) laser modules in various applications. It delivers output currents of 2 x 12.5 A and 4 x 750 mA and pulse widths variable from 50 µs to CW operation. Several safety features are integrated to protect both laser diode and driver.

	TLDD
Laser Diode Driver	
· Output Current	2 x 12.5 A (50 µs - CW) and 4 x 750 mA (CW)
· Rise Time (10 - 90%)	≤ 50 µs
· Mechanical Dimensions (W x D x H)	(180 x 125 x 70) mm^3
· Additional Features	Safety circuit and communication interface



Test and Evaluate

The DLM evalution kits are ready-to-use and straightforward laboratory systems for first feasibility studies in research environment. The evaluation kits are available with different kinds of laser sources (see front page), shortens the development time, enables flexibility and a fast demonstration of feasibility. The test systems are delivered with your requested laser source, a laser control system and a cooling system for laboratory use only.

Please contact us for more information on rental or purchase conditions: info@pantec-biosolutions.com

DLM Applications

Medical	Industrial
· Ophthalmology	· Material Processing
· Aesthetics / Dermatology	· Analytics
· etc.	· etc.

More Services

Customized laser sources
Optical and mechanical design
Contract development and manufacturing
Medical device consulting (IP research, Medical CE, ...)

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